

RECOMMENDED FLUID RESUSCITATION FOR PEDIATRICS

All pediatric fluid resuscitation is weight-based using the Holliday Segar formula.

Initial Bolus:

20 mL/kg isotonic fluid over 30 minutes
Repeat if still unstable

Maintenance Fluid:

100 ml for each of the first 10kg
+ 50 ml for each kg 11-20
+ 20 ml for each additional kg
Administer total volume over 24 hours

Examples:

22 kg child

Initial Bolus: 440 mL over 30 minutes (*880 mL/hr*)

Maintenance Fluid:

1000 mL (10 kg x 100) + 500 mL (10 kg x 50) + 40 mL (2 kg x 20)

Total volume = 1540 mL over 24 hours (*64.2 mL/hr*)

13 kg child

Initial Bolus: 260 mL over 30 minutes (*520 mL/hr*)

Maintenance Fluid:

1000 mL (10 kg x 100) + 150 mL (3 kg x 50)

Total volume = 1150 mL over 24 hours (*47.9 mL/hr*)

8 kg child

Initial Bolus: 160 mL over 30 minutes (*320 mL/hr*)

Maintenance Fluid:

800 mL (8 kg x 100)

Total volume = 800 mL over 24 hours (*33.3 mL/hr*)